

## A List of the Fishes in the Collection of the Raffles Museum

By M. W. F. TWEEDIE, M.A.

By far the greater part of the named collection of fishes in the Raffles Museum has been identified by Prof. Dr. L. F. de Beaufort and Prof. Dr. Max Weber of the University of Amsterdam, their work on the collection having proceeded to some extent concomitantly with the publication of the later volumes of their monographic work on the Fishes of the Indo-Australian Archipelago.

Other specialists who have studied material from the collection are Dr. F. P. Koumans of the Leiden Museum, who identified the gobies in the collection sent to Amsterdam, Mr. J. R. Norman of the British Museum who dealt with the flatfishes, and Mr. A. Fraser-Brunner of the British Museum who identified a small collection of Balistidæ and Pomacanthinæ, and is at present engaged on the Monacanthidæ and Syngnathidæ. The collection also includes paratypes of *Gobiella birtwistlei* Herre<sup>1</sup>, and Dr. Herre is at present working in collaboration with Dr. G. S. Myers of the U. S. National Museum on freshwater fishes collected recently by the staff of the Raffles Museum.

Finally the list includes a number of species identified by members of the museum staff. In the absence of comparative material these identifications are strictly confined to species whose characters are so well defined as to render mistakes in their determination highly improbable.

The species identified by Weber and de Beaufort are listed without comment, those determined by other specialists are

1. A.W.C.T. Herre, Bull. Raffles Mus., 9, 1934, p. 85.

accompanied by the initials of the specialist in question and those determined by members of the museum staff are marked with an asterisk.

The sources of the collection are various and a complete enumeration of them in this introduction would be redundant. Of the marine forms the greater part have been obtained in the Singapore fishmarkets and by the experimental trawler S.T. "Tongkol" in 1926 and 1927, mostly in the South China Sea off the east coast of the Malay Peninsula. The freshwater forms were obtained partly by the Fisheries Department, Straits Settlements and Federated Malay States, in various localities in the Malay Peninsula, mostly between 1922 and 1929. The remainder have been donated or obtained by members of the museum staff on collecting expeditions.

References in literature are given to those species which have been described from the collections of the Raffles Museum.

## ELASMOBRANCHII

## SPHYRNIDÆ

✓ × *Sphyrna zygaena* (L.). Singapore.

## RHINOBATIDÆ

2 N × *Rhinobatus thouiniana* (Shaw). × Malacca Strait.

## RHINIDÆ

✓ *Rhynchobatus djiddensis* (Forsk.). Singapore.

× *Rhina ancylostoma* Bl. Schn. Singapore.

## DASYATIDÆ

× *Urogymnus asperrimus* (Bl. Schn.). Trengganu, east coast × Malay Peninsula.

## MOBULIDÆ

✓ *Mobula eregoodoo* Cantor. Singapore.

## TELEOSTEI

## ELOPSIDÆ

N × *Megalops cyprinoides* (Brouss.). × Sandakan, British North Borneo.

## NOTOPTERIDÆ

✓ *Notopterus notopterus* (Pall.). Lake Chini, Pahang, F.M.S.

## OSTEOGLOSSIDÆ

✓ *Scleropages formosus* (Müll. & Schl.). Bukit Merah Reservoir, Perak, F.M.S.

CLUPEIDÆ

- ✓ *Coilia quadrifilis* Gthr. Ketam Island, Selangor, F.M.S.
- ✓ *Raconda russelliana* Gray. Perak, F. M. S.
- ✓ *Stolephorus indicus* (v. Hass.). Singapore.

CLARIIDÆ

- ✓ *Clarias batrachus* (L.). Botanic Gardens, Singapore.
- ✓ *Clarias leiacanthus* Blkr. Johore.
- ✓ *Clarias nieuhofi* C. V. Sedagong River, Tioman Island, east coast Malay Peninsula.
- ✓ *Clarias teysmanni* Blkr. Mandai Road, Singapore.

SILURIDÆ

- ✓ *Callichrous leiacanthus* (Blkr.). Kuching, Sarawak.
- × *Callichrous pabda* (H.B.). Lake Chini, Pahang, F.M.S.; Bukit Merah Reservoir, Perak, F.M.S.
- ✓ *Silurichthys phaiosoma* (Blkr.). ✓ Sadong River, Sarawak; ✓ Mandai Road and Botanic Gardens, Singapore.
- ✓ *Silurodes hypophthalmus* (Blkr.). ✓ Lake Chini, Pahang, F.M.S.; Telok Anson, Perak, F.M.S.
- ✓ *Wallago leerii* Blkr. Telok Anson, Perak, F.M.S.

PLOTOSIDÆ

- ✓ *Plotosus anguillaris* (Bl.). ✓ East coast Malay Peninsula; ✓ Blakang Mati Island, Singapore.
- × *Plotosus canius* H.B. No data.

CHACIDÆ

- ✓ *Chaca chaca* (H.B.). Johore.

PANGASIDÆ

- ✓ *Lais hexanema* (Blkr.). Pahang River, near Mentakab, Pahang, F.M.S.
- × *Pangasius pangasius* (H.B.). (?—juv. spec.) Pahang River, near Mentakab, Pahang, F.M.S.

BAGARIDÆ

- ✓ *Bagarius bagarius* (H.B.). Mandai Road, Singapore.
- ✓ *Glyptosternum platypogonoides* (Blkr.). Ulu Jelai, Pahang, F.M.S.

ARIIDÆ

- ✓ *Arius argyropleuron* C. V. East coast Malay Peninsula.
- ✓ *Arius cælatus* C. V. Kuala Jarum Mas, Perak, F.M.S.
- ✓ *Arius thalassinus* (Rüpp.). Muar, Johore.

FISHES IN THE RAFFLES MUSEUM

- ✓ *Arius truncatus* C.V. Muar, Johore (fishmarket).  
 ✓ *Osteogeneiosus militaris* (L.). East coast Malay Peninsula.

BAGRIDÆ

- ✓ *Macrones micracanthus* (Blkr.). Bukit Merah Reservoir, Perak, F.M.S.; Johore.  
 ✓ *Macrones nemurus* (C.V.). ✓ Bukit Merah Reservoir, Perak, F.M.S.; Bettotan, British North Borneo.  
 ✓ *Macrones nigriceps* (C.V.). Telok Anson, Perak, F.M.S.  
 ✓ *Macrones planiceps* (C.V.). Ulu Jelai, Pahang, F.M.S.  
 ✓ *Macrones wolffi* (Blkr.). Telok Anson, Perak, F.M.S.; Malacca.  
 ✓ *Leiocassis chaseni* de B.<sup>1</sup> Ulu Jelai, Pahang, F.M.S.  
 ✓ *Leiocassis micropogon* (Blkr.). Bukit Merah Reservoir, Perak, F.M.S.

HOMALOPTERIDÆ

- ✓ *Gastromyzon borneensis* Gthr. Bongon River, Marudu Bay, British North Borneo.  
 ✓ *Gastromyzon nieuwenhuisi* (Popta). Bongon River, Marudu Bay, British North Borneo.  
 ✓ *Glanopsis hanitschi* Blgr.<sup>2</sup> Kadamaian River, Mount Kinabalu, British North Borneo.

COBITIDÆ

- ✓ *Acanthophtalmus* (Cobitophis) *mureniformis* de B.<sup>3</sup> Thompson Road, Singapore.  
 ✓ *Acanthopsis choirohynchus* (Blkr.). No data.  
 × *Botia hymenophysa* (Blkr.). Ulu Jelai, Pahang, F.M.S.  
 × *Nemachilus fasciatus* (C.V.). Johore.

CYPRINIDÆ

- ✓ *Balantiocheilus melanopterus* (Blkr.). Lake Chini, Pahang, F.M.S.  
 ✓ *Barbichthys laevis* (C.V.). Kuala Kangsar, Perak, F.M.S.; Ulu Jelai, Pahang, F.M.S.  
 × *Chela johorensis* Steind. Bukit Merah Reservoir, Perak, F.M.S.  
 ✓ *Chela oxygaster* (C.V.). Bukit Merah Reservoir, Perak, F.M.S.

1. de Beaufort, L.F. Bull. Raffles Mus., 8, 1933, p. 34.  
 2. Boulenger, G.A. A.M.N.H. 7, iv (1899) p. 228.  
 3. de Beaufort, L.F. Bull. Raffles Mus., 8, 1933, p. 32.

- ✓ *Chela oxygastroides* (Blkr.). Sadong River, Sarawak.  
 ✓ *Crossochilus oblongus* (C.V.). Johore.  
 ✓ *Cyclocheilichthys apogon* (C.V.). ✓ Bukit Merah Reservoir, Perak, F.M.S.; ✓ Mount Ophir, Johore.  
 ✓ *Cyclocheilichthys armatus* (C.V.). Sadong River, Sarawak.  
 ✕ *Cyclocheilichthys siaja* Blkr. Kuala Kangsar, Perak, F.M.S.  
 ✕ *Danglia cuvieri* C.V. Bukit Merah Reservoir, Perak, F.M.S.  
 ✓ *Danglia fasciata* (Blkr.). Ulu Jelai, Pahang, F.M.S.  
 ✓ *Danio malabaricus* Jerd. Langkawi Island, west coast Malay Peninsula.  
 ✓ *Epalzeorhynchus kallopterus* (Blkr.). Ulu Jelai, Pahang, F.M.S.  
 ✓ *Hampala macrolepidota* (C.V.). ✓ Bukit Merah Reservoir, Perak, F.M.S.; ✓ Bettotan, British North Borneo; ✓ Sadong River, Sarawak.  
 ✓ *Lissochilus smedleyi* de B.<sup>1</sup> Johore.  
 ✕ *Luciosoma setigerum* (C.V.). Kuala Kangsar, Perak, F.M.S.; Lake Chini, Pahang, F.M.S.  
 ✓ *Luciosoma trinema* (Blkr.). Ulu Jelai, Pahang, F.M.S.  
 ✓ *Mystacoleucus marginatus* (C.V.). Kuala Kangsar, Perak, F.M.S.; Ulu Jelai, Pahang, F.M.S.  
 ✓ *Nematabramis everetti* Blgr. Bettotan, British North Borneo.  
 ✓ *Osteochilus brachynotopterus* (Blkr.). Ulu Jelai, Pahang, F.M.S.  
 ✓ *Osteochilus hasselti* (C.V.). ✕ Bukit Merah Reservoir, Perak, F.M.S.; ✓ Lake Chini, Pahang, F.M.S.  
 ✕ *Osteochilus kahajanensis* (Blkr.). Ulu Jelai, Pahang, F.M.S.  
 ✓ *Osteochilus vittatus* (C.V.) [Blkr.]. Bukit Merah Reservoir, Perak, F.M.S.; Ulu Jelai, Pahang, F.M.S.  
 ✓ *Paralauca typus* Blkr. Pahang River, near Mentakab, Pahang, F.M.S.  
 ✓ *Puntius binotatus* (C.V.). Singapore, various localities; Mount Ophir, Johore; Sadong River and Kuching, Sarawak.  
 ✓ *Puntius elongatus* (Seale). Bettotan, British North Borneo.  
 ✕ *Puntius hexazona* (W. and de B.). Woodlands, Singapore.  
 ✓ *Puntius lateristriga* (C.V.). ✓ Ulu Jelai, Pahang; ✓ Sedagong River, ✓ Tioman Island, west coast Malay Peninsula; ✓ Kuching, Sarawak; ✓ Sadong River, Sarawak.

<sup>1</sup>. de Beaufort, Bull. Raffles Mus., 8, 1933, p. 34.

# FISHES IN THE RAFFLES MUSEUM

- × *Puntius sachsi* (Ahl). Serangoon, Singapore.
- ✓ *Puntius schwanefeldi* (Blkr.). Kuala Kangsar, Perak, F.M.S.; Lake Chini and Ulu Jelai, Pahang, F.M.S.
- × *Rasbora argyrotænia* (Blkr.). Lake Chini, Ulu Jelai and Pahang River, near Mentakab, Pahang, F.M.S.; Kuala Kangsar, Perak, F.M.S.
- ✓ *Rasbora einthoveni* Blkr. Ponggol and Mandai, Singapore.
- ✓ *Rasbora heteromorpha* Duncker. Mandai, Singapore; Bukit Merah Reservoir, Perak, F.M.S.
- ✓ *Rasbora lateristriata* (Blkr.) ✓ Singapore, ✓ Ulu Jelai, Pahang, F.M.S. ✓ Mount Ophir, Johore, ✓ Sadong River, Sarawak; Bettotan, British North Borneo.
- × *Rasbora lateristriata sumatrana* (Blkr.). Ampang Reservoir, Selangor, F.M.S.
- × *Rasbora pauciperforata* W. and de B. Bukit Merah Reservoir, Perak, F.M.S.
- ✓ *Rasbora trilineata* Steind. Bukit Merah Reservoir, Perak, F.M.S.
- ✓ *Rasboraichthys altior* Reg. Serangoon and Botanic Gardens, Singapore.
- MURAENIDÆ
- ✓ *Muraena* (*Gymnothorax*) *undulata* var. *fimbriata* Benn. Singapore.
- SYNBRANCHIDÆ
- ✓ *Monopterus albus* (Zuiew). Off Pulau Tioman, east coast Malay Peninsula.
- AULOSTOMATIDÆ
- ✓ *Fistularia villosa* Kl. Singapore Fishmarket; Siglap, Singapore; off Pulau Tioman, east coast Malay Peninsula.
- SYNGNATHIDÆ<sup>1</sup>
- ✓ *Syngnathoides biaculeatus* (Bl.). ✓ Siglap, Singapore, ✓ South Natuna Islands.
- × *Micrognathus brevirostris* (Rüpp.). Alligator Island, near Singapore.
- ✓ *Hippocampus kuda* Blkr. Fishmarket and various localities on the coast, Singapore
- ✓ *Hippocampus histrix* Kaup. Siglap, Singapore.
- ✓ *Hippocampus spinosissimus* M. Web. Siglap, Singapore. *label was torn*
- ✓ *Hippocampus trimaculatus* Leach. Siglap, Singapore.

<sup>1</sup>. Several species have been collected in addition to those listed, and are at present being studied by Mr. A. Fraser Brunner.

HEMIRHAMPHIDÆ

✓ *Dermogenys pusillus* v. Hass. Singapore; Langkawi Island, west coast Malay Peninsula.

✓ *Hemirhamphodon pogonognathus* (Blkr.). Mandai, Singapore.

✓ *Hemirhamphus far.* (Forsk.). Singapore fishmarket.

EXOCOETIDÆ

✓ *Cypsilurus opisthopus* (Blkr.). No data.

✓ *Cypsilurus speculiger* (C.V.). No data.

✓ *Parexocætus brachypterus* (Rich.). China Sea.

SPHYRAENIDÆ

✓ *Sphyræna langsar* Blkr. East coast Malay Peninsula.

MUGILIDÆ

✓ *Mugil vaigiensis* Q.G. No data.

OPHIOCEPHALIDÆ

✓ *Ophiocephalus bistriatus* W. and de B. Bukit Merah Reservoir, Perak, F.M.S.

✓ *Ophiocephalus gachua* H.B. Bukit Timah, Singapore; Langkawi Islands.

✓ *Ophiocephalus lucius* (K.v.H.). C.V. Bukit Merah Reservoir, Perak, F.M.S.; Ampang Reservoir, Selangor, F.M.S.

✓ *Ophiocephalus melanosoma* Blkr. Bukit Merah Reservoir, Perak, F.M.S.

✓ *Ophiocephalus micropeltes* (K.v.H.). C.V. ✓ Telok Anson and × Bukit Merah Reservoir, Perak, F.M.S.

✓ *Ophiocephalus striatus* Bl. Botanic Gardens, Singapore; Bukit Merah Reservoir, Perak, F.M.S.

ANABANTIDÆ

✓ *Anabas testudineus* (Bl.) Singapore, various localities; Mount Ophir, Johore.

✓ *Betta fusca* Reg. Mandai, Singapore; Langkawi Island, west coast Malay Peninsula.

× *Betta ocellata* de B.<sup>1</sup> Bettotan, British North Borneo.

✓ *Betta taniata* Reg. × Botanic Gardens, Singapore; ✓ Ampang River, Selangor, F.M.S.; Johore.

✓ *Ctenops vittatus* (C.V.). Singapore, various localities.

✓ *Helostoma temminckii* C.V. Kampar, Perak, F.M.S.

<sup>1</sup> de Beaufort, Bull. Raffles Mus., 8, 1933, p. 35.

FISHES IN THE RAFFLES MUSEUM

✓ *Polycanthus hasselti* C.V. Bukit Merah Reservoir, Perak, F.M.S.

✓ *Trichopodus pectoralis* Reg. Malacca.

✓ *Trichopodus trichopterus* (Pall.). ✓ Singapore, various localities; Bukit Merah Reservoir, Perak, F.M.S. *depressed*

LUCIOCEPHALIDÆ

✓ *Luciocephalus pulcher* (Gray). Sadong River, Sarawak.

CYPRINODONTIDÆ

✓ *Aplocheilichthys javanicus* Blkr. Geylang, Singapore.

✓ *Panchax panchax* (H.B.). ✓ Singapore, various localities; x Langkawi Island, west coast Malay Peninsula.

PSETTODIDÆ

✓ *Psettodes erumei* (Bl. Schn.). Singapore fishmarket. (J.R.N.); Sandakan, British North Borneo.\*

BOTHIDÆ

✓ *Pseudorhombus duplici-cellatus* Reg. East coast Malay Peninsula.

✓ *Pseudorhombus malayanus* Blkr. Singapore fishmarket (J.R.N.); Sandakan, British North Borneo.\*

✓ *Pseudorhombus javanicus* (Blkr.). Singapore fishmarket (J.R.N.).

✓ *Pseudorhombus neglectus* Blkr. Singapore fishmarket (J.R.N.).

✓ *Pseudorhombus arsius* (H.B.). Singapore fishmarket (J.R.N.); Sandakan, British North Borneo.\*

✓ \**Bothus pantherinus* (Rüpp.). Sandakan, British North Borneo.

SOLEIDÆ

x *Coryphillus filiger* (Web.). Siglap, Singapore (J.R.N.).\*

x *Aseraggodes melanospilus* (Blkr.). Siglap Singapore (J.R.N.).\*

✓ *Pardachirus pavoninus* (Lac.). Singapore fishmarket (J.R.N.).

✓ *Synaptura commersoni* (Lac.). Singapore fishmarket (J.R.N.).

✓ *Brachirus aspidos* (Blkr.). Singapore fishmarket (J.R.N.).

x *Brachirus orientalis* (Bl. Schn.). Singapore fishmarket (J.R.N.).

\* These specimens have been presented to the British Museum.

✓ *Zebrias zebra* (Bl.). Singapore fishmarket (J.R.N.); Siglap Singapore.\*

✓ *Zebrias quagga* (Kaup). Singapore fishmarket (J.R.N.); Siglap, Singapore.\*

✓ *Paraplagusia bilineata* (Bl.). Siglap, Singapore. (J.R.N.).

✓ *Paraplagusia blochii* (Blkr.). Siglap, Singapore. (J.R.N.).

✓ *Cynoglossus bilineatus* (Lac.). Singapore fishmarket (J.R.N.); Sandakan, British North Borneo.\*

✓ *Cynoglossus lingua* H.B. Singapore fishmarket (J.R.N.); Sandakan, British North Borneo.\*

✓ *Cynoglossus macrolepidotus* (Blkr.). Singapore fishmarket (J.R.N.).

✓ *Cynoglossus borneensis* (Blkr.). Singapore fishmarket (J.R.N.).

✓ *Cynoglossus kopsii* (Blkr.). Singapore fishmarket (J.R.N.).

✓ \**Cynoglossus oligolepis* (Blkr.). Sandakan, British North Borneo.

✓ *Cynoglossus puncticeps* (Rich.). Singapore fishmarket and Siglap, Singapore (J.R.N.).

✓ \**Cynoglossus cynoglossus* (H.B.). Singapore fishmarket.

× *Cynoglossus sumatranus* (Blkr.). Siglap, Singapore (J.R.N.).

× *Cynoglossus siboga* M. Web. Siglap, Singapore (J.R.N.).\*

#### NANDIDÆ

✓ *Nandus nebulosus* Blkr. Bukit Merah Reservoir, Perak, F.M.S.

✓ *Pristolepis* (Catopra) *fasciatus* (Blkr.). Bukit Merah Reservoir, Perak, F.M.S.

#### MONOCENTRIDÆ

✓ *Monocentris japonicus* (Houttuyn). Off Tioman Island, east coast Malay Peninsula.

#### HOLOCENTRIDÆ

✓ *Holocentrum rubrum* (Forsk.). East coast Malay Peninsula.

✓ *Myripristis melanostictus* Blkr. East coast Malay Peninsula.

✓ *Myripristis murdjan* (Forsk.). Off Tioman Island, east coast Malay Peninsula.

#### KUHLIDÆ

✓ *Kuhlia tæniura* (C.V.). Christmas Island, Indian Ocean.

\* This specimen has been presented to the British Museum.

## APOGONIDÆ

- ✓ *Apogon amboinensis* Blkr. Pulau Brani, Singapore.
- ✓ *Apogon ellioti* Day. East coast Malay Peninsula.
- ✓ *Apogon quadrifasciatus* C.V. Off Singapore.
- ✓ *Apogon taniopterus* Benn. Mentawi Islands, west coast Sumatra.

## PRIACANTHIDÆ

- ✓ *Priacanthus holocentrum* Bl. East coast Malay Peninsula.
- ✓ *Priacanthus cruentatus* (Lac.). Christmas Island, Indian Ocean.
- ✓ *Priacanthus tayenus* (Rich.). East coast Malay Peninsula; Off Tioman Island, east coast Malay Peninsula.

## SERRANIDÆ

- ✓ *Cromileptes altivelis* (C.V.). Singapore fishmarket.
- ✓ *Diploprion bifasciatum* (K.v.H.) C.V. Raffles Lighthouse, near Singapore.
- ✓ *Epinephelus amblycephalus* (Blkr.). Off Tioman Island, east coast Malay Peninsula.
- ✓ *Epinephelus areolatus* (Forsk.). East coast Malay Peninsula.
- ✓ *Epinephelus boenack* (Bl.). Singapore.
- ✓ *Epinephelus fasciatus* (Forsk.). Singapore.
- ✓ *Epinephelus miniatus* (Forsk.). Christmas Island, Indian Ocean.
- ✓ *Epinephelus sexfasciatus* (C.V.). East coast Malay Peninsula; Off Tioman Island, east coast Malay Peninsula.
- ✓ *Grammistes sexlineatus* (Thunb.). Christmas Island, Indian Ocean.
- ✓ *Pogonoperca punctata* (C.V.). Christmas Island, Indian Ocean.

## THERAPONIDÆ

- ✓ *Therapon jarbua* (Forsk.). No data.
- ✓ *Therapon puta* C.V. No data.

## CARANGIDÆ

- ✓ *Alectis ciliaris* (Bl.). East coast Malay Peninsula.
- ✓ *Alectis indica* (Rüpp.). Singapore.
- ✓ *Caranx* (*Carangoides*) *malabaricus* (Bl. Schn.). East coast Malay Peninsula.

- ✓ *Caranx (Caranx) carangus* Bl. East coast Malay Peninsula.
- ✓ *Caranx (Gnathodon) speciosus* (Forsk.). Singapore.
- ✓ *Trachinotus bailloni* (Lac.). Singapore fishmarket.

LACTARIIDÆ

- ✓ *Lactarius lactarius* (Bl. Schn.). Off Tanjong Hantu, West coast Malay Peninsula.

MAENIDÆ

- ✓ *Mene maculata* (Bl. Schn.). East coast Malay Peninsula; Singapore fishmarket.\*

LEIOGNATHIDÆ

- ✓ *Leiognathus blochi* (C.V.) (?). Singapore.
- ✓ *Leiognathus fasciatus* (Lac.). East coast Malay Peninsula; Singapore fishmarket.
- ✓ *Gerres macrosoma* Blkr. No data.
- ✓ *Gerres punctatus* C.V. Juara Bay, Tioman Island, east coast Malay Peninsula.
- ✓ *Parupeneus luteus* (C.V.). East coast Malay Peninsula.
- ✓ *Parupeneus trifasciatus* (Lac.). Singapore fishmarket.
- ✓ *Upeneus moluccensis* (Blkr.). East coast Malay Peninsula.

LUTJANIDÆ

- ✓ *Lutjanus gibbus* (Forsk.). China Sea, south-east of Malay Peninsula.
- ✓ *Lutjanus kasmira* (Forsk.). Off Great Redang Islands, east coast Malay Peninsula; Off Aroa Islands, Malacca Strait.
- ✓ *Lutjanus malabaricus* (Bl. Schn.). Off Tioman Island, east coast Malay Peninsula.
- ✓ *Lutjanus sanguineus* (C.V.). East coast Malay Peninsula.
- ✓ *Lethrinus nebulosus* (Forsk.). East coast Malay Peninsula.
- ✓ *Plectorhynchus chaetodonoides* Lac. Singapore; Sultan Shoal, near Singapore.\*
- ✓ *Plectorhynchus crassispinus* (Rüpp.). Singapore.
- ✓ *Plectorhynchus pictus* (Thunb.). Singapore.
- ✓ *Scolopsis dubiosus* M. Web. Singapore.
- ✓ *Scolopsis personatus* (C.V.). East coast Malay Peninsula.

CHAETODONTIDÆ

- ✓ *Platax orbicularis* (Forsk.). Singapore.
- ✓ *Drepane punctata* (L.). near *forma longimana* (Bl.). Off Tioman Island, east coast Malay Peninsula.
- ✓ *Ephippus orbis* (Bl.). Off Tioman Island, east coast Malay Peninsula.

- x *Scatophagus argus* (L.) Tanjong Katong, Singapore.  
 ✓ *Anisochætodon* (*Linophora*) *vagabundus* (L.). Christmas Island, Indian Ocean; Singapore fishmarket.\*  
 ✓ *Chætodon* (*Tetragonopterus*) *citrinellus* (C.V.). Christmas Island, Indian Ocean.  
 ✓\**Chætodon lineolatus* C.V. Singapore fishmarket.  
 ✓ *Chætodon* (*Tetragonopterus*) *octofasciatus* Bl. Singapore; Sultan Shoal, near Singapore.\*  
 ✓ *Chætodon* (*Rhabdophorus*) *trifasciatus* Mungo Park. Singapore; Singapore fishmarket.\*  
 ✓\**Chætodon unimaculatus* Bl. Singapore fishmarket.  
 ✓ *Chætodontoplus mesoleucus* (Bl.). Sultan Shoal, near Singapore (A.F.-B.); Blakang Mati Island near Singapore.  
 ✓ *Chelmon rostratus* (L.) Singapore; Singapore fishmarket;\* Sultan Shoal, near Singapore.\*  
 ✓\**Forcipiger longirostris* Brouss. Christmas Island, Indian Ocean.  
 x *Gonocheætodon triangulum* (C.V.). Singapore. *decoyed*  
 ✓\**Heniochus singularis* Smith and Radcl. Singapore fishmarket.  
 ✓\**Heniochus acuminatus* (L.). Singapore fishmarket.  
 ✓ *Heteropyge sexstriatus* (C.V.). ✓ Singapore fishmarket (A.-F.B.) x Singapore.  
 ✓ *Paracheætodon ocellatus* (C.V.). No data.  
 ✓ *Pomacanthus annularis* (Bl.). Singapore fishmarket (A.F.-B.).  
 ✓ *Pomacanthus striatus* (Rüpp.). Siglap, Singapore (A.F.-B.).  
 ✓\**Zanclus canescens* (L.). Singapore fishmarket.

## TOXOTIDÆ

- ✓ *Toxotes jaculator* (Pall.). Singapore.

Acanthuridae  
HEPATIDÆ

- ✓ *Hepatus triostegris* (L.). Christmas Island, Indian Ocean.  
 ✓ *Naso brevirostris* (Val.). Singapore fishmarket.

## POMACENTRIDÆ

- ✓\**Amphrion percula* (Lac.). Sultan Shoal, near Singapore.  
 ✓\**Amphrion polylepis* (Blkr.). Sultan Shoal, near Singapore.

## ELEOTRIDÆ

- ✓ *Oxyleotris marmorata* (Blkr.). Serangoon, Singapore. (F.P.K.).

